

about 1850?

PROPOSED CERTIFICATE OF INSPECTION.

Be it known that I, _____ Inspector of Steamboats for the port of St. Louis, have this day thoroughly inspected the boilers, engines and machinery of the Steamboat Saranac, and find that her boilers are in good condition, manufactured by Messrs. Gaty, Glasby & McCune, from full quarter inch iron, of good quality, and are safe for her present voyage to the port of New Orleans, at a pressure of 75 lbs. per square inch.

That her engines and machinery are in like good condition.

That the passages for the water to the boiler and for the steam to the engines have a free and unobstructed area of 27 inches for every 405 feet of fire surface.

That her engines have an ^{diameter} area of piston head of 23 inches for every 504 feet of fire surface, and that it does not cut its steam at less than a half stroke, and that its length of stroke is full one third of the diameter of the paddle wheel.

That there is not immersed in the water at any one time over 300 feet face of paddle bucket for each 23 inches ^{diameter} area of cylinder.

That her forcing pumps are all in good order and capable of throwing 135 cubic inches of water at every revolution of the engine, that she has provided duplicate pumps of the same capacity, and either of which can be worked by hand or by the engines as may be found necessary.

That Wm. Jones is the first Engineer, and has been duly inspected and found well qualified, of sober and industrious habits; that he is permitted to take the charge of the engines and machinery, and allowed to run with a pressure in the boilers of 75 lbs. to the square inch, and no higher; that he is permitted to run with water in the boiler to 3 inches above the flues, and no lower; and also that he has duly taken and subscribed the proper oath that he will faithfully and carefully discharge the duties of first Engineer; and that he will in no manner alter, derange, or obstruct any apparatus or machinery placed in the cabin for the use of the passengers, or designed the better to provide against the explosion of steam boilers.

That the owners, Captain and Engineer have entered into the proper bonds, in the sum of five hundred dollars, to the benefit of any passenger prosecuting the same in case of any negligence or violation of the conditions of this permit

[Signed.]

Inspector.